

CHAPTER 2

VOCABULARY CHECK

BLM 2-12

An Inventory of New Terms

Goal • Use this page to review terms studied to the end of section 2.2.

What to Do

1. In the table below, write the definitions of the terms.

Term	Definition
diffusion	movement of particles from high to low concentration without cellular energy
osmosis	movement of H_2O particles from high to low concentration across a membrane without cellular energy.
active transport	movement of particles from low to high concentration with cellular energy
cell membrane	a "selectively permeable" membrane separating the inside of the cell from the outside
carrier protein	embedded protein in cell membrane that moves particles into and out of cell (with energy)
cellular respiration	$O_2 + \text{carbohydrate} \rightarrow H_2O + CO_2 + \text{energy}$ carbohydrates react with O_2 to make energy in mitochondria

2. Write the word equation for the chemical reaction that occurs in cellular respiration.

O_2 + carbohydrate → CO_2 + H_2O + energy

3. The products of cellular respiration are: CO_2 , H_2O + energy

4. The reactants of cellular respiration are: O_2 , carbohydrates

5. Cellular respiration occurs in the: mitochondria

6. The reaction that produces cellular energy in plants is called: photosynthesis

7. Write the word equation for photosynthesis.

light + CO_2 + H_2O → O_2 + carbohydrates
energy